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Electronic Patent Application Submission
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EFS ID: 58578
 Application ID: 10772225
 Title of Invention: Three Dimensional Tooth
 Orientation for Roller Cone Bits
 First Named Inventor: Shilin Chen
 Domestic/Foreign Application: Domestic Application
 Filing Date: 2004-02-04
 Effective Receipt Date: 2004-04-07
 Submission Type: Information Disclosure
 Statement
 Filing Type:
 Confirmation number: 2188
 Attorney Docket Number: SC-03-02




Total Fees Authorized:

Digital Certificate Holder: cn=Robert O. Groover,ou=Registered Attorneys,ou=Patent and
 Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US
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TRANSMITTAL

Electronic Version v1.1
Stylesheet Version v1.1.0

Title of Invention	Three Dimensional Tooth Orientation for Roller Cone Bits									
<p>Application Number: 10/772225 </p> <p>Date: 2004-02-04</p> <p>First Named Applicant: Shilin Chen</p> <p>Confirmation Number: 2188</p> <p>Attorney Docket Number: SC-03-02</p>										
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N. Elizabeth Pham Registered Number: 49042	N. Elizabeth Pham	Attorney								
<table> <tr> <td>Documents being submitted</td> <td>Files</td> </tr> <tr> <td>us-ids</td> <td>SC-03-02.ids-usidst.xml</td> </tr> <tr> <td></td> <td>us-ids.dtd</td> </tr> <tr> <td></td> <td>us-ids.xsl</td> </tr> </table>			Documents being submitted	Files	us-ids	SC-03-02.ids-usidst.xml		us-ids.dtd		us-ids.xsl
Documents being submitted	Files									
us-ids	SC-03-02.ids-usidst.xml									
	us-ids.dtd									
	us-ids.xsl									
Comments										



Receipt date: 04/07/2004

10772225 - GAU: 2128

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of
Invention

Three Dimensional Tooth Orientation for Roller Cone Bits

Application Number: 10/772225



Confirmation Number: 2188

First Named Applicant: Shilin Chen

Attorney Docket Number: SC-03-02

Search string: (1209299 or 1263802 or 1394769 or 1847981
or 2117679 or 2122759 or 2132498 or 2165584
or 2230569 or 2496421 or 2728559 or 2851253
or 4056153 or 4187922 or 4334586 or 4343371
or 4393948 or 4408671 or 4427081 or 4611673
or 4627276 or 4657093 or 4815342 or 4848476
or 5137097 or 5197555 or 5216917 or 5224560
or 5305836 or 5311958 or 5318136 or 5341890
or 5370234 or 5372210 or 5394952 or 5416697
or 5421423 or 5704436 or 5715899 or 5730234
or 5767399 or 5794720 or 5812068 or 5813480
or 5813485 or 5839526 or 6002985 or 6012015
or 6021377 or 6044325 or 6057784 or 6095262
or 6109368 or 6213225 or 6241034 or 6401839
or 6412577 or 6527068).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	1209299	1910-12-19	Hughes			
	2	1263802	1918-04-23	Reed			
	3	1394769	1921-10-25	Sorenson			
	4	1847981	1932-03-01	C.E. Reed			
	5	2117679	1938-05-17	G.E. Reed			
	6	2122759	1938-07-05	F.L. Scott			
	7	2132498	1938-10-11	H.C. Smith			
	8	2165584	1939-07-11	H.C. Smith			
	9	2230569	1941-02-04	J.H. Howard et al.			

	10	2496424	1950-02-07	Clokes
	11	2728559	1955-12-27	E.C. Boice et al.
	12	2851253	1958-09-09	E.C. Boice et al.
	13	4056153	1977-11-01	Migliorini
	14	4187922	1980-02-12	Phelps
	15	4334586	1982-06-01	Schumacher, Percy W.
	16	4343371	1982-08-01	Baker et al.
/H.J./	17	4393948	1983-07-01	Fernandez, Carol
	18	4408671	1983-10-11	Munson
	19	4427001	1984-04-24	Crawford
	20	4611673	1986-09-16	Childers et al.
	21	4627276	1986-12-00	Burgess et al.
	22	4657093	1987-04-14	Schumacher
/H.J./	23	4815342	1989-03-28	Brett et al.
	24	4848476	1989-07-18	Deane et al.
	25	5127007	1992-08-11	Fernandez
/H.J./	26	5197555	1993-03-30	Estes
	27	5216047	1993-06-01	Deleumay
/H.J./	28	5224560	1993-07-06	Fernandez
	29	5305836	1994-04-01	Holbrook et al.
	30	5311058	1994-05-17	Isbell et al.
	31	5318136	1994-06-07	Rewse et al.
	32	5341690	1994-08-30	Cowthorne et al.
/H.J./	33	5370234	1994-12-06	Sommer, Jr. et al.
/H.J./	34	5372210	1994-12-13	Harrell
	35	5384952	1995-03-07	Johns et al.
	36	5416697	1995-05-16	Goodman
	37	5421423	1995-06-06	Huffstutler
	38	5704426	1998-01-06	Smith et al.
	39	5715890	1998-02-10	Liang et al.
/H.J./	40	5730234	1998-03-24	Putot
	41	5767399	1998-06-01	Smith et al.
/H.J./	42	5794720	1998-08-18	Smith et al.
	43	5812068	1998-09-22	Wieler et al.
	44	5813480	1998-09-29	Zaleski, Jr. et al.
	45	5813486	1998-09-29	Portwood

	46	5099526	1998-11-24	Cisneros et al.
	47	6002985	1999-12-14	Stephenson
	48	6012015	2000-01-04	Tubel
	49	6024377	2000-02-01	Dubinsky et al.
	50	6044325	2000-03-28	Chakravarthy et al.
	51	6057784	2000-05-02	Schaaf et al.
[H.J.]	52	6095262	2000-08-01	Chen, Shilin
	53	6109369	2000-09-20	Goldman et al.
	54	6213325	2001-04-10	Chen
	55	6244034	2001-06-01	Steinke et al.
	56	6404839	2002-06-01	Chen, Shilin
[H.J.]	57	6412577	2002-07-02	Chen, Shilin
	58	6527068	2003-03-01	Singh et al.

Remarks

Note: Remarks are not for responding to an office action.

The accompanying form PTO-1449 lists one or more documents which may be considered material to the examination of this application. Applicant reserves the right to establish the patentability of the claimed invention over any of the listed documents should they be applied thereagainst as references, and/or to prove that some of these documents may not be prior art, may not be within an analogous field of art, and/or may not be enabling for the teachings they purport to offer. This statement should not be construed as a representation that an exhaustive search has been made, nor that more material information does not exist. The Examiner is specifically requested to conduct an independent and thorough review of the documents, and to form his own opinions as to the significance of those documents to patentability of the claimed inventions, regardless of any of the foregoing statements concerning the significance of the references. The foregoing statements are made in good faith, and in compliance with the duty of disclosure; but they cannot substitute for the Examiner's specialized expertise, nor are they intended to derogate from the Examiner's official duty to assess patentability. It is also respectfully noted that the submission of this material is not intended to displace the Examiner's professional ability and duty to search. Indeed, the Examiner is specifically requested not to rely on the materials submitted herewith, but to conduct a full and independent search. It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, to indicate in the file of this patent application that the documents have been considered.

Signature

Examiner Name	Date
/Hugh Jones/ (06/28/2008)	